

**APPARATUS FOR READING
STORAGE LAYER RADIATION SCREENS**
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ABSTRACT

10 An apparatus is provided for reading a latent image stored on a storage layer radiation
screen, the apparatus comprising: a light source adapted to provide excitation light across a width
of a storage layer radiation screen; and an excitation and image acquisition station comprising a
mechanism for shaping the excitation light as an elongated region of excitation light across the
width of the screen, optics for collecting a region of light emitted by a lateral strip of the screen
excited by the elongated region of excitation light, and an elongated pixelated sensor array
15 positioned to capture from the optics the region of light emitted by the screen; wherein the latent
image stored on the screen is read by collecting and capturing light emitted from the screen as the
screen moves past the excitation and image acquisition station.